

TECH SHOW BEGINS REHEARSALS AGAIN

Mr. Francis Reads Over Parts with Provisional Principals

CHORUS LEARNS SONGS

Final Cast. Chorus and Dancers to be Selected Soon by Coach Francis

At the first rehearsal of this year's show last Monday afternoon, all those men who have been chosen provisionally for the chorus, as well as those who are to be the dancing girls, went over the words of the opening chorus with the coach. Three other songs were given out and the music gone over several times. The chorus is again under the leadership of J. W. Flockton. The chorus and dancers rehearse Monday, Wednesday, and Friday afternoons, the other days being devoted to the rehearsing of the principals. It is hoped by Coach Francis that he will be able to start the chorus on the floor the next week.

Tuesday afternoon the principals met and the score was read in order that a more general idea of the plot and characters of the play might be gained, and to give those men who are trying for the different parts a comprehensive idea of the role they will have to enact. There were several men who were in last year's play and others who have been in for more than one year. Catching 1911, Malcolm 1909, Jacobs 1910, Court 1910, and Higgins 1910, are of the former. Allen 1909, and Fenney 1909, have been in the two of the shows; Belden 1909, in three, and Kilbey 1908, in five of them. Malcolm, the author of the play, will probably take the title role. Mr. Francis, the stage director, will, in all cases make the decision as to the suitability of each man, and will select the final cast from the present provisional one in a week or two. Tardiness and absence from rehearsal will play no small part in his final selection.

STENOGRAPHER AT UNION

Bookkeeping etc. for Student Activities

The Institute Committee at the last meeting on Feb. 9 voted to open an office in Room A of the Union, where a competent stenographer and bookkeeper will be employed permanently during the school year. The committee's idea in opening this office is primarily to enable the various student activities to have their bookkeeping, filing, and typewriting done with a maximum of convenience and a minimum of cost. A friend of the Institute has placed at the disposal of the committee enough money to establish the office and to pay the deficit until such time as the office becomes self-supporting. The details were left to the Executive Committee, which has now completed the necessary arrangements, and the office will be ready for business in a few days.

The bookkeeper's salary is paid by the Institute Committee. A uniform charge of thirty cents an hour (plus material used) will be made; bills will be sent semi-monthly to the activities which have enough work done to run an account; to others, bills will be sent when each job is completed; payments should be made at the office in person or by check made out to "The Institute Committee." A receipt will be given for every bill paid. Complaints and suggestions should be addressed to the Executive Committee of the Institute Committee, Box 51, Cage.

As the charges of typewriting are considerably lower than usual, it is expected that individual students as well as organizations will have a large part of their typewritten work done here. As the greater portion of thesis typewriting (Continued on page 2.)

DR. MACLAURIN ON TECHNOLOGY STUDY

Admirable Work in French by President-Elect of Tech

PROF. SEAVER REVIEWS

Articles Appear in the French "Revue Scientifique" of January 16, 1909

In the "Revue Scientifique" (Paris) for Jan. 16, 1909, appears an article by Dr. Richard C. MacLaurin, President-elect of the Institute on "Technical Education in the United States." Prof. MacLaurin takes the Institute as typical of the best of the American Technical Schools, and after discussing his subject in a general way, gives more particular facts about the Institute and an outline of the curriculum.

Professor Seaver of the English Department of that Institute has very kindly prepared an exhaustive digest of the article which follows:—

Interest in high technical education has always existed among the educated classes in France, where from the beginning much was done to develop advanced instruction, and where the attainments of other European schools have always been well known. The French are familiar with the breadth of horizon and the depth characteristic of the instruction at the Charlottenburg school, and with the methods of its special schools, which are, in fact modeled on the Institute Chimique at Nancy. The Zurich Polytechnicum, the school of Engineers at Lausanne, and the Royal Industrial Museum at Turin are also known. In England, unfortunately, there exists, as the Frenchman know, no community of effort between industry and science, and the money devoted to higher technical training is totally insufficient; from Oxford and Cambridge such studies seem almost excluded—if not through lack of means, then through their traditional dissociation from industrial production and industrial needs; nor in London or the provincial universities are technical studies successful, beyond elementary grades. With conditions in America, however, even the educated French are not acquainted—being suspicious, indeed, of the narrowly utilitarian spirit of the Americans and their prejudiced enthusiasms for their own institutions. As a matter of fact, however, technical studies are there pursued in the right spirit and with the greatest earnestness and an admirable enthusiasm.

From the French point of view, several facts about technical education in America seem striking. The expenditure seems excessive; but it must be remembered that the more important institutions are growing so rapidly that even these large sums are already insufficient. Disproportionate expense has been devoted to showy buildings, it has sometimes seemed; but the actual material equipment for work in American institutions is not matched by all even of the important European schools. The number of professors is very large, because studies have been so widely extended or so narrowly specialized, and because every effort is being made to increase friendly intercourse between teachers and pupils, in small, intimate classes. A tendency is also evident to extend the usual four years' course into a graduate year. Most distinctive to foreign eyes, perhaps, is the very effective organization of the American institutions, and especially the influence and importance of the president, both within the school and as representing the institution to the outside public. Lastly, it is characteristic of the American technical schools that they maintain the most close and friendly relations with the industrial world; they are usually located in industrial centres, their teachers are encouraged in gaining stimulus and knowledge of existing condi-

(Continued on page 3.)

PLANS FOR JUNIOR PROM COMPLETED

Indications Point to Most Successful Prom at Institute

IS EVENT OF SEASON

Matrons and Patronesses Selected—Books Being Circulated for Signatures

Junior Prom, Technology's most important social event of a man's four year's course, has been completely arranged, and will take place on Wednesday evening, April 21st, at the Hotel Somerset. This is an event to which all Tech men look forward to with a great deal of interest, and every effort is being made by the committee in charge to have this year's Prom eclipse all others. The support that has been forthcoming from the student body would warrant a whirlwind success.

The receiving will begin promptly at 8.30 p.m. Dancing will begin about 9 o'clock and last until the supper dance at 11.30. Following the intermission there will be dancing until 3.00 a.m.

The matrons will be:—Mrs. Curtis Guild, Mrs. Eban S. Draper, Mrs. Emanuel J. Mixer, Mrs. Richard C. MacLaurin.

The Patronesses will be:—Mrs. William T. Sedgwick, Mrs. Frank H. Rand, Mrs. Alfred E. Burton, Mrs. George F. Swain, Mrs. Dugald C. Jackson, Mrs. Henry P. Talbot, Mrs. Desire Despradelle, Mrs. Harry E. Clifford, Mrs. Chauncey C. Batchelor, Mrs. Davis R. Dewey.

The following men are circulating the books in the various courses. All desirous of attending the Prom are asked to sign with one of the men:—R. H. Allen, 1909; W. C. Salisbury, 1911; C. H. Caysenter, 1912; J. Avery, Jr., (Course I); Philips Hard and B. Reynolds (Course II); F. D. Steward and V. C. Warren (Course III); P. T. Harris (Course IV.); W. N. Drew (Course V. and X.); A. A. Gould and C. E. Green (Course VI.); H. S. Billings and R. C. Jacobs (Course VII).

TECH TO MEET HARVARD

Relay Teams to Meet Again Either at Hartford or at B. A. A.

Technology is not satisfied with the outcome of the one mile relay race against Harvard at the Columbia meet last Saturday, and Manager Fernstrom is trying to make arrangements for a dual run between the two teams. Tech had made the fastest time at the B. A. A. meet of the previous week, and was looked upon by many to take the race with Harvard and Columbia. Fernstrom who ran first for the institute team, fell on rounding the second corner and thus a half a lap was lost to the Tech runners.

The ten-lap track at the Madison sq. garden is without corners, and it is natural for one to go wide of the pole in taking the corners. Columbia, who had the pole, in going wide at the second turn, forced the Harvard and Tech runners further out. Foster of Harvard accidentally struck Fernstrom's foot, causing the fall. Despite this Capt. Gram, running last for Tech, finished but a fifth of a lap behind the winner, his time for the quarter being 51 seconds.

It is reported that Harvard is also desirous of another meeting with the Technology team. The Harvard team is entered in the annual games of Trinity College to be held in Hartford Friday evening, Feb. 19, although it has no opponent yet. Efforts are being made to have the two teams meet at this time, but whether the proposed race will materialize or not is a matter of considerable doubt.

There is also considerable possibility of a race between the two teams at the annual school meet of the B. A. A., to be held in Mechanic's Hall in a few weeks.

TECH WINS GAME FROM HOLY CROSS

In Fast Game the Crack Tech Basketball Team is the Winner

SCORE WAS 9 TO 7

Parker Excells for Technology—Technology vs. Dartmouth Decisive Game

In a closely contested game last night the Technology five won from Holy Cross College by the narrow margin of 9-7. The game was on in earnest from the blow of the whistle, neither side showing any marked superiority. Taken as a whole the game was rather rough.

In the first half Holy Cross showed up better than their opponents, Daley throwing a field goal and Casey a field, and two foul goals for Holy Cross, while the only points for Tech were one field and two foul goals by Parker. The half closed with a score of 6-4 in favor of the Worcester team.

In the second half the Tech boys woke up and rolled up a winning score for themselves while holding their opponents down to a single tally, a goal from foul by Joy. Parker threw three goals from fouls and one from the field. In this half Bennis replaced Lord at left forward.

Parker assisted by the other four won the game for Tech, scoring every point, while Joy and Casey stared Holy Cross. The line up:—

TECH.	HOLY CROSS.
Daley r.f.	Lord.
	Bennis.
Casey (c.) l.f.	Hargraves.
O'Connor c.	Parker.
Martin r.g.	Wentworth.
Joy l.g.	Taite.
Referee—H. D. Herr.	
Goals from field—Parker 2, Daley,	
Casey. Goals from fouls—Parker 5,	
Casey 2, Joy.	
Score—M. I. T., 9, Holy Cross 7.	

Between the halves of the Technology-Dartmouth game the two class teams will begin a game which may decide the class championships of the Institute. The last game on Jan. 14 was captured by the Sophomores with a 26 to 15 score. The five from the entering class will be strengthened by the addition of A. F. Kenwick, a substitute on the varsity team who will probably enter the game in the last half.

The probable line up is as follows:—
1911—Schatz r.f.; Williams, l.f.; L. Wingston, c.; Stevens, MacPherson, r.b.; Metcalf, l.b.

1912—Stone, l.b.; Cherry, r.b.; Ruby, c.; Albee, Kenrick, l.f.; Riddell, r.f.

E. H. S. CLUB TO DINE

Tomorrow night the E. H. S. Club will hold its first dinner and election of officers. It is essential that all graduates and former students of English High be present, as after the election, important matters concerning general welfare will be brought up. Professors Goodwin from E. H. S. and Woodman of M. I. T. will be present as guests. Prof. Clifford will be unable to attend, as he will be in New York at that time. Dinner will be at 6.30 in the Union.

CALENDAR

Wednesday, Feb. 17.

3.30—1911 vs. Milton High at Milton.

4.15 P. M.—Show Chorus in Union.

6.00 P. M.—C. E. Society Dinner in Union.

Thursday, Feb. 18.

1.00—T. P. A. Meeting in 30 C.

6.30—E. H. S. Club dinner at Union.

Friday, Feb. 19.

1.0—1910 Class Picture on Rogers Steps.

1.00—Tech vs. Dartmouth and 1911 . . . 1912 at gym.

THE TECH

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Wednesday, February 17, 1909.

The Tech regrets to announce the resignations of J. Newell Stephenson 1909, and George C. Kenney 1911, from the board of associate editors.

President MacLaurin will be kept hustling this week.

The 1910 Junior Prom. Committee is to be congratulated upon the dispatch with which it has completed the arrangements for the coming event. The only essential now to make this year's Prom a success is the hearty support of the class. Men should sign up at once with the representative of their course.

The discussion of higher technical education by Dr. MacLaurin which is so admirably translated in this issue by Professor Leaver should be of much interest to the students of the institution, which he sets up as ideal—the Institute of Technology. The President-elect believes that to co-ordinate science and culture, as at the Institute, is the only wise method, but he makes a further point by arguing that if technology study is to be separated from culture, the scientific training should come first to prepare the student for a broader acceptance of the aspects of culture.

This will be to many a comparatively new way of viewing the situation and will not be readily accepted by those who have cherished the idea that a scientific course at the Institution should be supplementary to the study of culture at one of the universities.

The question reduces to one of the relative merits of a cultural preparation for scientific study and a scientific preparation to cultural study, and it would seem that quite as much, if not more, could be said in support of the latter—Dr. MacLaurin's theory—over the older, more generally accepted, plan.

COSMIC PHYSICS

History of Solar Systems to be Discussed by Prof. Lowell

The first of a series of six lectures on Cosmic Physics will be given in Huntington Hall next Tuesday afternoon by Professor Percival Lowell, A.B., LL.D., Non-resident Professor of Astronomy at the Institute and Director of the Lowell Observatory at Flagstaff, Arizona. This course of lectures will be held weekly from four to five and it is especially planned for second, third, and fourth year men. The main purpose of the course is to give a survey of the present knowledge regarding the physics of our solar system, the evolution of the worlds, and to awaken interest and arouse imagination and thought in the large problems which the subject involves.

The more important topics to be considered in these lectures are:—1. The Birth of the Solar System—Dark bodies in space. Collisions with them, past and future. 2. Evidence of the Initial Catastrophe—Single and double star systems. Moments of momentum. Tidal action. Meteorites. The bearing upon

this of Mr. Slipher's recent spectrograms. 3. Formation of Planets—Internal heat generated. How calculated. Its effect upon the planet's career. 4. A Planet's Subsequent History—Astronomy and Geology. An explanation of paleozoic times and of the course afterward pursued. 5. Loss of Planets Own Heat—Heat received from the sun. How evaluated. Glacial epochs. 6. Death of a World—a. Through accident—collision with other celestial bodies. b. Through paralysis—turning the same face always to the sun. c. Through old age—loss of water and of air.

STENOGRAPHER AT UNION

(Continued from page 1.) exams., seniors are advised to place their orders for thesis work as early as possible to avoid getting left. The office will be open from 8.00 to 10.30 a. m., and from 11.45 a. m. to 5.45 p. m. Mails orders should be addressed to office of the Institute Committee, 30 Trinity Place. Notice will be given in the Tech and on the various billboards as to the exact date of opening, which will be within a few days.

The many friends of Frederick J. Evans 1911, will be grieved to hear of his recent bereavement in the death of his father. The young man's father, who was a stationary engineer, in some unaccountable manner became entangled in the fly-wheel of a large engine last Monday, and he was horribly mangled. He was removed to his home, where he died late in the afternoon.

The members of the Sophomore class are collecting a fund to send flowers to their bereaved classmate and all desirous of contributing are asked to communicate with J. E. Rush 1911, either in person or through the Cage.

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MACLAURIN ON TECH STUDY

(Continued from page 1.)

tions by practising the profession they teach, and the manufacturers, in turn, eagerly and confidently employ graduates of the schools, and assist directly, both in the courses and in the administration of the schools.

In illustration of these conditions the administration and curriculum of the Institute are then explained in full detail, with the following paragraph of comment:—

"... The characteristics of the Institute, perhaps insufficiently displayed by this sketch, are the following: (1) the importance attached to the fundamental principles rather than to the details of a trade; (2) the encouragement of social life among the students, a recent development due largely to the spirit of the previous president; (3) the encouragement of investigations made by the students, in whom is instilled much independence of thought and action; (4) the combining of professional with liberal studies. A liberal view is held as to the object of the studies, and serious effort is made to co-ordinate science and culture. The object of those who shaped the spirit of the institution was not to make solely engineers; but men of liberal spirit and large ideas.

"After studying such an institution one may doubt the wisdom of the usual method, which is this: to separate, or to try to separate culture from science and technology study. It is usual to devote the first part of the student's life to culture, and to postpone his technical and scientific education. This artificial arrangement is completely irrational; for if there is really ground for making any separation, it would seem more reasonable first to train the young mind completely by inculcating scientific methods, and to leave its general culture to completion in a later period when it will have a widened horizon and better knowledge of men and affairs. However, this may be, there can be no doubt that an education received at the Massachusetts Institute of Technology may be of the largest service to any one who has the least aptitude for science. Even for a man who might aim at a purely scientific career it would be well to go through such a school; he would escape the danger of too sharp a separation between head and hand which is so unfortunate for both. Science is too much inclined to concern itself with abstractions and unreal problems; its detachment from practice deprives it of its most necessary stimulus, and that to the harm of science or of industry. A good technological institution reminds us only that we need not to develop able men of science and of industry, but that we must develop science and industry together, and by these raise humanity to its highest possible level.

An editorial footnote is as follows:—Professor R. Maclaurin, who during a trip in Europe some time ago wrote the above articles, has been quite recently elected president of the Institute of Technology. We desire here to congratulate him on his nomination to this important position, for which he is especially marked out by the independence and breadth of his ideas.

C. E. SOCIETY DINNER

At the next meeting of the Civil Engineering Society, tonight Associate Prof. Breed will speak on the subject of "Expert Testimony." Prof. Breed has been called out on several times to give expert testimony, and it is expected that he will tell something about these cases. He graduated from Tech in 1897, course I, and after a year in the engineering department of the Boston and Albany railroad became assistant in Civil Engineering, and has since risen to Assistant Professor.

Dinner will be at 6.30 in the Union.

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PLANS MADE FOR BALL

Under the leadership of Major Rowe the military ball committees have completed all the preparations for the dance Friday night in Howe Hall. Captain Anderson has seen to the decorations of the Huntington Avenue Hall with Tech colors. Major Rowe has secured a very neat program.

For matrons have been secured Mrs. A. E. Burton, Mrs. F. H. Rand and Mrs. H. P. Talbot.

The floor director is Major Rowe and he has as assistants the four captains, and as aides the eight lieutenants. Two buglers will be on the floor to announce the various dances by bugle calls.

The engagement is announced of Miss Mildred Whittier of Edgewood, Rhode Island, to Abbott H. Thompson 1908, of Brookfield, Mass.

James P. Munroe, secretary of the corporation, was the principal speaker at a Lincoln meeting of the Boston Y. M. C. A. last Sunday evening.

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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PROF. ALLEN TESTIFIES

Professor C. Frank Allen of the Civil Engineering department of the Institute was among those who testified at the hearing on the Boston charter bill before the committee on metropolitan affairs at the State house Monday. Professor Allen expressed himself as firmly in favor of the establishment of a permanent Finance Committee, and that he considered the question of a referendum of prime importance.

NOTICES

Senior, have you had your picture taken for the portfolio?

GLEE CLUB: Rehearsals on Monday and Thursday at 4.15 in the Union.

RIFLE CLUB.—Meeting in 33 Rogers at 1 o'clock Friday, February 19.

IMPORTANT—1910 Class Picture at 1.00 p. m. Friday, Feb. 19, on Rogers Steps.

T. P. A.—Meeting in 30 C at 1 P. M. tomorrow.

HOCKEY TEAM. — Picture at Notman's on Park street Saturday at 1 o'clock sharp.

ORCHESTRA.—A call for candidates has been issued by the M. I. T. Orchestra. There are a number of changes soon to be made, and more men are desired to try for the new positions.

FRATERNITY MEN attending the Institute and not belonging to an active chapter will please send their names to the Society Editor 1910 Technique, at once.

TECH SHOW.—Rehearsals will be held as follows:—Monday, Wednesday, and Friday for the chorus and dancers; Tuesday, Thursday, and Saturday for principals. All rehearsals to be held at 4.15 in the dining room of the Union.

Subscriptions to the Tech for the remainder of the year for sale at the Tech office, 30 C. Price, \$1.00.

FACULTY NOTICES

HISTORY OF CHEMISTRY.—The next exercise in History of Chemistry will be held at 4 p. m. Thursday, Feb. 18, in 24 Walker.

COSMIC PHYSICS.—Attention of students is called to Prof. Lowell's course in Cosmic Physics, for details of which the bulletin boards should be consulted.

A section may be formed to take Spanish I, first term work, and one to take Italian, first term work. Students wishing to take such a course should leave their tabular view cards with Professor Bigelow, room 31 Lowell, by 4 p. m. Wednesday, the 17th inst., indicating the subject desired.

MODERN LANGUAGES.—Exercises will be held in the following subjects at the hours indicated:

Spanish I—Tuesday 4-5 and Friday 4-5 with Prof. Bigelow in 31 Lowell.

Spanish II—Monday 12-1 and Thursday 11-12 with Mr. Erhardt in 29 Lowell.

Spanish III—Tuesday 11-12 and Saturday 9-10 with Mr. Erhardt in 29 Lowell.
German I—Tuesday 4-5, Thursday 4-5, and Saturday 12-1 with Mr. Blachstein in 22 Lowell.

Esperanto—Tuesday 1-1, and Thursday 4-5 with Prof. Vogel in 29 Lowell.

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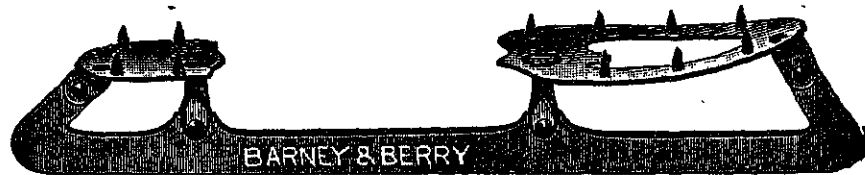
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